

**Distance Formula - Triangles**

Sheet 2

- 1) Show that the points  $L(5, 0)$ ,  $M(1, 8)$  and  $N(6, 10)$  form a scalene triangle.
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- 2) Show that the points \_\_\_\_\_ right triangle.

# PREVIEW

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- 3) Show that the points \_\_\_\_\_ triangle.

- 4) Prove that the points  $F(8, -1)$ ,  $G(9, -3)$  and  $H(7, -4)$  are the vertices of an isosceles triangle.
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**Distance Formula - Triangles**

- 1) Show that the points L(5, 0), M(1, 8) and N(6, 10) form a scalene triangle.

$$LM = \sqrt{80} \text{ units ; } MN = \sqrt{29} \text{ units ; } NL = \sqrt{101} \text{ units}$$

$$LM \neq MN \neq NL$$

**The points L(5, 0), M(1, 8) and N(6, 10) form a scalene triangle.**

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- 2) Show that the points S(-6, 3), T(-3, 6) and U(-3, 9) form a right triangle.

$$ST = \sqrt{9} \text{ units}$$

$$ST^2 = 9 \text{ units ;}$$

$$ST^2 + US^2 = TU^2$$

**The points S(-6**

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- 3) Show that the points X(-2, 1), Y(2, 4) and Z(2, 1) form a right triangle.

$$XY = \sqrt{32} \text{ units}$$

$$XY = YZ = ZX$$

**The points X(-2**

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right triangle.

right triangle.

**right triangle.**

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- 4) Prove that the points F(8, -1), G(9, -3) and H(7, -4) are the vertices of an isosceles triangle.

$$FG = \sqrt{5} \text{ units ; } GH = \sqrt{5} \text{ units ; } HF = \sqrt{10} \text{ units}$$

$$FG = GH$$

**The points F(8, -1), G(9, -3) and H(7, -4) form an isosceles triangle.**

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